

**Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the application:

**Listing of Claims:**

1-3. (Canceled)

4. **(Currently Amended)** A The composition according to claim 13, wherein the modified lactic acid bacterial cell according to claim 1 that contains comprises at least 0.1 ppm on a dry matter basis of a cytochrome.

5. **(Currently Amended)** A The composition according to claim 13, wherein the modified lactic acid bacterial cell according to claim 1 that contains comprises at least 0.1 ppm on a dry matter basis of cytochrome *d*.

6. **(Currently Amended)** A The composition according to claim 13, wherein the modified lactic acid bacterial cell according to claim 1 which is of a bacterial species selected from the group consisting of *Lactococcus* spp., *Lactobacillus* spp., *Leuconostoc* spp., *Pediococcus* spp., *Streptococcus* spp., *Propionibacterium* spp., *Bifidobacterium* spp., and *Oenococcus* spp.

7. **(Currently Amended)** A The composition according to claim 13, wherein the modified lactic acid bacterial cell according to claim 6 where the bacterial species is of *Lactococcus lactis*.

8. **(Currently Amended)** A The composition according to claim 13, wherein the modified lactic acid bacterial cell according to claim 1 which, when it is in the form of a cell suspension, is inoculated in a concentration of  $10^7$  cells/ml into low pasteurised skimmed milk having 8 ppm of dissolved oxygen and the milk is allowed to stand for about two hours at a temperature of about 30°C, the cell consumes at least 25% of the dissolved oxygen.

9. **(Currently Amended)** A The composition ~~modified lactic acid bacterial cell~~ according to claim 8 where the modified lactic acid bacterial cell consumes at least 50% of the dissolved oxygen.

10. **(Currently Amended)** A The composition according to claim 13, wherein the modified lactic acid bacterial cell ~~according to claim 1, which,~~ relative to a cell from which it is derived, has a decreased NADH oxidase (NOX) activity, a decreased lactate dehydrogenase (LDH) activity, or a decreased NOX activity and decreased LDH activity.

11. **(Currently Amended)** A The composition according to claim 10, wherein the modified lactic acid bacterial cell ~~according to claim 10 that~~ has a NOX activity which is decreased by at least 10% under aerobic conditions.

12. **(Currently Amended)** A The composition according to claim 10, wherein the modified lactic acid bacterial cell ~~according to claim 10 that~~ has a LDH activity which is decreased by at least 10%.

13. **(Currently Amended)** A starter culture composition useful in manufacturing and preservation of food and feed products, comprising the a modified lactic acid bacterial cell of claim 1 that has been treated with a medium comprising a porphyrin compound which includes iron to cause said modified lactic acid bacterial cell to comprise at least 0.1 ppm on a dry matter basis of a porphyrin compound which includes iron, wherein said modified lactic acid bacterial cell is harvested following treatment with said medium comprising a porphyrin compound which includes iron and is useful as a starter culture for the manufacture of food and feed products.

14. **(Currently Amended)** A The composition according to claim 13, wherein the composition is in the form of a frozen, liquid or freeze-dried composition.

15. **(Currently Amended)** A The composition according to claim 13 comprising an amount of viable modified lactic acid bacterial cells which is in the range of  $10^4$  to  $10^{12}$  CFU per gram.

16. **(Currently Amended)** A The composition according to claim 13 which comprises modified lactic acid bacterial cells of two or more different lactic acid bacterial strains.

17. **(Currently Amended)** A The composition according to claim 13, ~~which further comprises~~ further comprising at least one component ~~enhancing~~ which enhances the viability of the modified lactic acid bacterial cell during storage.

18-28. (Canceled)

29. (Withdrawn) A method of reducing the oxygen content in a food or feed product or in a food or feed product starting material comprising adding to the product or to the starting material an effective amount of the starter culture composition according to claim 13.

30. (Withdrawn) A method of improving the shelf life and/or the quality of an edible product comprising adding to the product an effective amount of the starter culture composition according to claim 13.

31. (Withdrawn) A method of preparing a fermented food or feed product, comprising adding an effective amount of the composition of claim 13 to a food or feed product starting material, wherein the composition is capable of fermenting said starting material to obtain the fermented food or feed product.

32. (Withdrawn) Use of the composition of claim 13 for the production of a metabolite produced by the composition or by a non-modified cell co-cultivated therewith.

33. (Withdrawn) Use of the composition of claim 13 for the production of a bacteriocin.

34. **(Currently Amended)** ~~A modified lactic acid bacterial cell according to claim 6,~~  
where The composition of claim 13, wherein the bacterial species of the lactic acid bacterial cell  
to be modified is *Lactococcus lactis* strain CHCC373 deposited under the accession number  
DSM12015.

35. **(Currently Amended)** A The composition according to claim 13, which includes a  
bacterial nutrient, a cryoprotectant or a bacterial nutrient and a cryoprotectant.

36. **(Currently Amended)** A The composition according to claim 13, wherein the  
modified lactic acid bacterial cell ~~according to claim 1 which contains~~ comprises at least 0.2 ppm  
on a dry matter basis of ~~[[a]] the porphyrin compound~~ which includes iron.

37. **(Currently Amended)** A The composition according to claim 13, wherein the  
modified lactic acid bacterial cell ~~according to claim 1 which contains~~ comprises at least 1 ppm  
on a dry matter basis of ~~[[a]] the porphyrin compound~~ which includes iron.

38. **(Currently Amended)** A The composition according to claim 13, wherein the  
modified lactic acid bacterial cell ~~according to claim 1 which contains~~ comprises at least 5 ppm  
on a dry matter basis of ~~[[a]] the porphyrin compound~~ which includes iron.

39. **(Currently Amended)** A The composition according to claim 13, wherein the  
modified lactic acid bacterial cell ~~according to claim 1 which contains~~ comprises at least 20 ppm  
on a dry matter basis of ~~[[a]] the porphyrin compound~~ which includes iron.

40. **(Currently Amended)** A The composition according to claim 13, wherein the  
modified lactic acid bacterial cell ~~according to claim 1 which contains~~ comprises at least 60 ppm  
on a dry matter basis of ~~[[a]] the porphyrin compound~~ which includes iron.

41. **(Currently Amended)** A The composition according to claim 13, wherein the  
modified lactic acid bacterial cell ~~according to claim 1 which contains~~ comprises at least 80 ppm  
on a dry matter basis of ~~[[a]] the porphyrin compound~~ which includes iron.

42. **(Currently Amended)** A The composition according to claim 13, wherein the modified lactic acid bacterial cell according to claim 1 which contains comprises at least 100 ppm on a dry matter basis of [[a]] the porphyrin compound which includes iron.

43. **(Currently Amended)** A The composition according to claim 13, wherein the modified lactic acid bacterial cell according to claim 1 which contains comprises at least 0.5 ppm on a dry matter basis of a cytochrome.

44. **(Currently Amended)** A The composition according to claim 13, wherein the modified lactic acid bacterial cell according to claim 1 which contains comprises at least 10 ppm on a dry matter basis of a cytochrome.

45. **(Currently Amended)** A The composition according to claim 13, wherein the modified lactic acid bacterial cell according to claim 1 which contains comprises at least 40 ppm on a dry matter basis of a cytochrome.

46. **(Currently Amended)** A The composition according to claim 13, wherein the modified lactic acid bacterial cell according to claim 1 which contains comprises at least 70 ppm on a dry matter basis of a cytochrome.

47. **(Currently Amended)** A The composition according to claim 13, wherein the modified lactic acid bacterial cell according to claim 1 which contains comprises at least 90 ppm on a dry matter basis of a cytochrome.

48. **(Currently Amended)** A The composition according to claim 13, wherein the modified lactic acid bacterial cell according to claim 1 which reduces the amount of oxygen present in a medium by at least 1% per hour.

49. **(Currently Amended)** A The composition according to claim 13, wherein the modified lactic acid bacterial cell according to claim 1 which reduces the amount of oxygen present in a medium by at least 20% per hour.

50. **(Currently Amended)** A The composition according to claim 13, wherein the modified lactic acid bacterial cell according to claim 1 which reduces the amount of oxygen present in a medium by at least 40% per hour.

51. **(Currently Amended)** A The composition according to claim 13, wherein the modified lactic acid bacterial cell according to claim 1 which reduces the amount of oxygen present in a medium by at least 70% per hour.

52. **(Currently Amended)** A The composition according to claim 13, wherein the modified lactic acid bacterial cell according to claim 1 which reduces the amount of oxygen present in a medium by at least 90% per hour.

53. **(Withdrawn)** A method for the production of a metabolite comprising adding the composition of claim 13 to a starting material and maintaining the resulting mixture under conditions suitable to produce the metabolite.

54. **(Withdrawn)** A method for the production of a metabolite comprising adding the composition of claim 13 and a non-modified cell co-cultivated with the composition and maintaining the resulting mixture under conditions suitable to produce the metabolite.

55. **(Withdrawn)** A method for the production of a bacteriocin comprising adding the composition of claim 13 to a starting material and maintaining the resulting mixture under conditions suitable to produce bacteriocin.

56. **(Currently Amended)** A The composition according to claim 13, wherein the modified lactic acid bacterial cell of claim 1 which exhibits a modified aerobic breakdown of

carbohydrates as compared to a lactic acid bacterial cell which has not been treated with the medium comprising a porphyrin compound which includes iron.

57. (Canceled)